

Condition	LIVE (Black)	DEAD (White)
VECTOR	~63	~27
HA-BAK	~1	~1

Transfection Condition	Live Cells (Black Bar)	Dead Cells (White Bar)
VECTOR	~155	~115
HA-BAK CO-TRANSFECTED PLASMID	~10	~10

Co-transfected Plasmid	Live Cells (Black)	Dead Cells (White)
VECTOR	~310	~60
HA-BAK	~10	~40

FIG. 1D

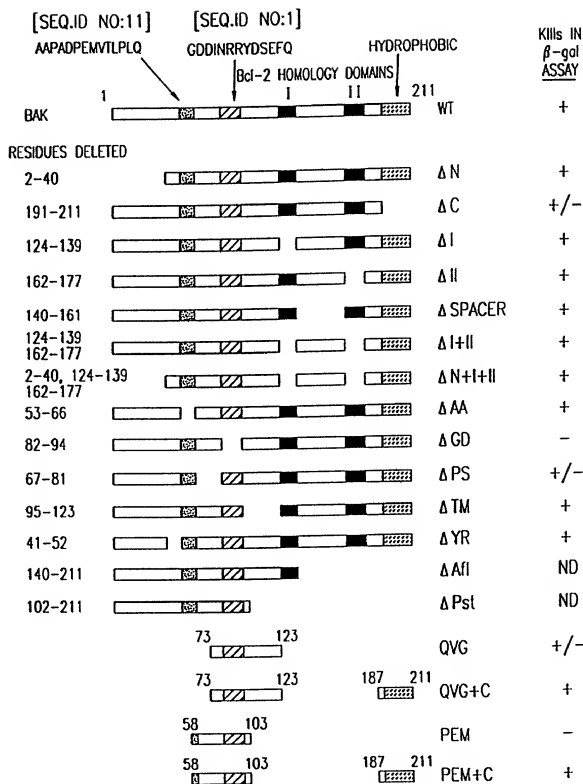


FIG.2

Interaction of Bak with GST-Bcl-x_L *in vitro*



FIG.3A

Interaction of Bak with Bcl-x_L in COS cells

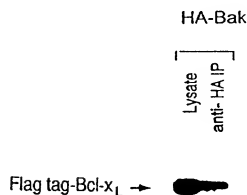


FIG.3B

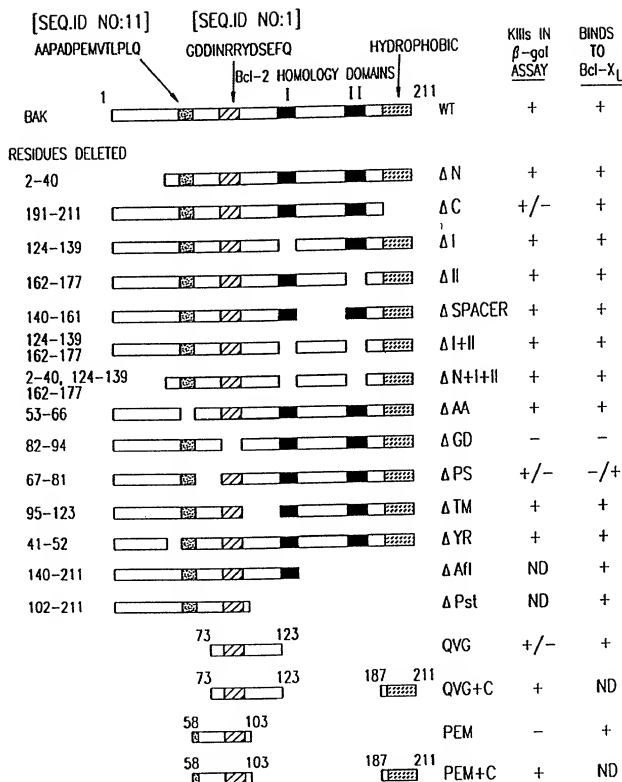


FIG.4

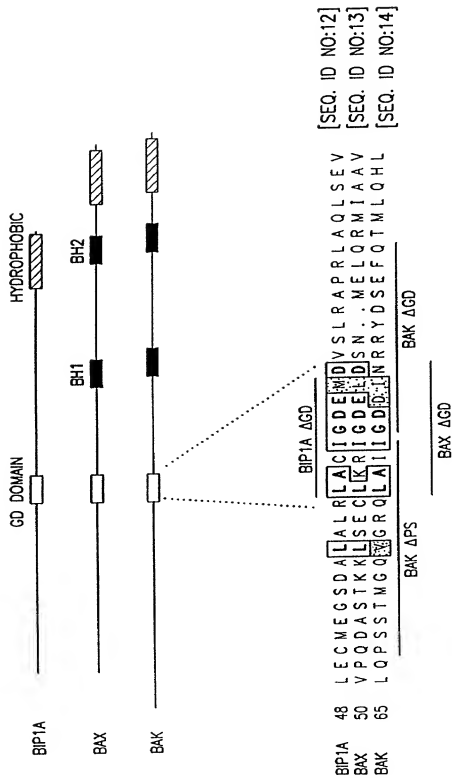


FIG.5

<u>PLASMID</u>	<u>RAT-1 CELL KILLING ACTIVITY</u>	<u>Bcl-X_L BINDING ACTIVITY</u>
Bak	+	+
Bak ΔPS	+/-	-/+
Bak ΔGD	-	-
Bax	+	+
Bax ΔGD	-	-
Bip1a	+	+
Bip1a ΔGD	+/-	-

FIG.6

Bak

1. CAG GTG GGA CGG CAG CTC GCC ATC ATC GGG GAC GAC ATC AAC CGA CGC TAT GAC TCA
 73 Q V G R Q L A I I G D D I N R R Y D S

280 * 290 * 300 *

GAG TTC CAG ACC ATG TTG CAG CAC CTG CAG CCC ACG
 E F Q T M L Q H L Q P T

103

[SEQ. ID NO: 15]
 [SEQ. ID NO: 16]

3

2. CCT AGC AGC ACC ATG GGG CAG GTG GGA CGG CAG CTC GCC ATC ATC GGG GAC GAC ATC
 67 P S S T M G Q V G R Q L A I I G D D I

260 * 270 * 280 *

AAC CGA CGC TAT GAC TCA GAG TTC CAG
 N R R Y D S E F Q

94

[SEQ. ID NO: 17]
 [SEQ. ID NO: 18]

2

3. GTG GGA CGG CAG CTC GCC ATC ATC GGG GAC GAC ATC AAC CGA CGC
 74 V G R Q L A I I G D D I N R R

88

[SEQ. ID NO: 19]
 [SEQ. ID NO: 20]

10

FIG. 8A

250 * 260 * 270 * 280 *
 4. GGG GAC GAC ATC AAC CGA CGC TAT GAC TCA GAG TTC CAG
 82 G D D I N R R Y D S E F Q 94

[SEQ. ID NO: 21]
 [SEQ. ID NO: 22]

Bax

160 * 170 * 180 * 190 * 200 * 210 *
 5. CAG GAT GCG TCC ACC AAG AAG CTG AGC GAG TGT CTC AAG CGC ATC GGG GAC GAA CTG
 52 Q D A S T K K L S E C L K R I G D E L

220 * 230 *
 GAC AGT AAC ATG GAG CTG CAG
 D S N M E L Q ZZ

[SEQ. ID NO: 23]
 [SEQ. ID NO: 24]

180 * 190 * 200 * 210 *
 6. CTG AGC GAG TGT CTC AAG CGC ATC GGG GAC GAA CTG GAC AGT AAC
 52 L S E C L K R I G D E L D S N 73

[SEQ. ID NO: 25]
 [SEQ. ID NO: 26]

FIG. 8B

190 * 200 210 *
 7. CTC AAG CGC ATC GGG GAC GAA CTG GAC [SEQ. ID NO: 27]
 63 L K R I G D E L D ZL [SEQ. ID NO: 28]

Bipla

150 * 160 170 * 180 * 190 * 200 *
 8. TGC ATG GAG GGC AGT GAC GCA TTG GCC CTG CGG CTG GGC GAC GAG ATG
 50 C M E G S D A L A L R L A C I G D E M

210 * 220 * 230 *
 9. GAC GTG AGC CTC AGG GCC CCG CGC CTG
 D V S L R A P R L ZZ

[SEQ. ID NO: 29]
 [SEQ. ID NO: 30]

170 180 190 * 200 210 *
 9. TTG GCC CTG CGG CTG GCC TGC ATC GGG GAC GAG ATG GAC GTG AGC
 52 L A L R L A C I G D E M D V S ZL

[SEQ. ID NO: 31]
 [SEQ. ID NO: 32]

190 * 200 *
 10. ATC GGG GAC GAG ATG
 64 I G D E M 68

[SEQ. ID NO: 33]
 [SEQ. ID NO: 34]

FIG. 8C

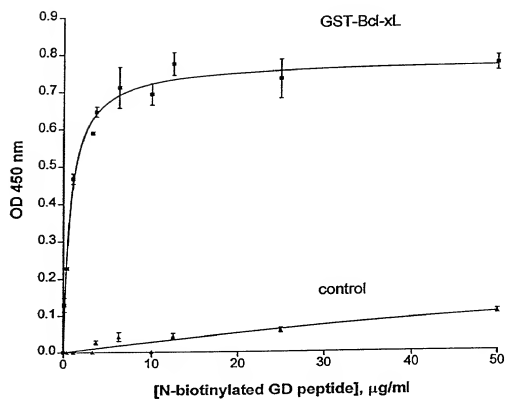
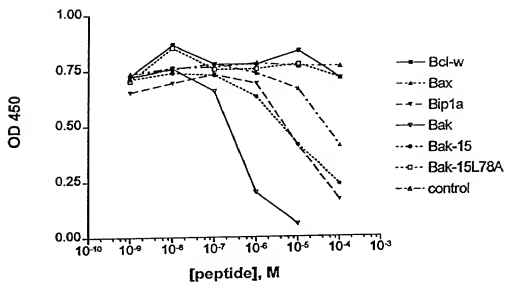


Fig. 9

**Inhibition of Bcl-xL/ GD domain-mediated
binding by GD domain peptides**



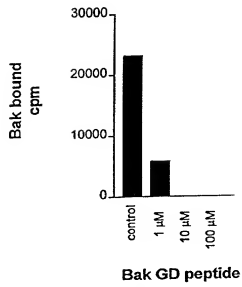


Fig 11

Inhibition of Bcl-xL protection of FAS/CHX-treated HeLa cells
by Bak GD domain peptides

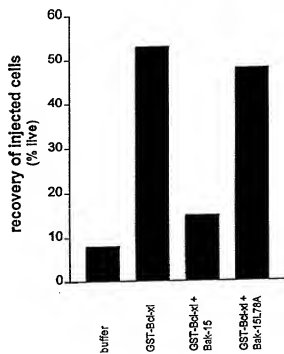


Fig. 1